Lab ID : CP-2021-12-24-23 Certificate No.: TC-5548

**COMPRESSIVE STRENGTH:** Date: 10-08-21

| Sl. No. | Size of solid block | | Area | Failure Load | Compressive strength | Average Compressive strength |
|---|---|---|---|---|---|---|
| | Length | Breadth | | | | |
| | mm | mm | ($mm^2$) | (KN) | $N/mm^2$ | ($N/mm^2$) |
| 1 | 400 | 202 | 80600 | 417.3 | 5.2 | |
| 2 | 400 | 201 | 80411 | 418.4 | 5.2 | |
| 3 | 401 | 199 | 79933 | 415.0 | 5.2 | |
| 4 | 399 | 203 | 80918 | 412.6 | 5.1 | |
| 5 | 403 | 202 | 81227 | 413.0 | 5.1 | 5.2 |
| 6 | 402 | 199 | 80046 | 417.9 | 5.2 | |
| 7 | 402 | 202 | 81136 | 421.0 | 5.2 | |
| 8 | 401 | 200 | 80315 | 416.6 | 5.2 | |

**As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)**

| Compressive strength | | |
|---|---|---|
| **Grade** | **Minimum average** | **Minimum Individual units.** |
| C (5.0) | 5.00 $N/mm^2$ | 4.00 $N/mm^2$ |
| C (4.0) | 4.00 $N/mm^2$ | 3.20 $N/mm^2$ |

* The Results Obtained are Satisfactory as per Standard Requirements

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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-12-24-23

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore. Date: 04/09/2021

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair Works at Primary Health Center at Jakkur in Ward No.05

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60

Customer's Reference : EE(Project)/Ynk Zone/WO/06/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-08-21

Customer ID : Staircase Wall Base Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/09/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Staircase Wall Base Concrete | M25 | 28/08/2021 | 04/09/2021 | 151.16 X 149.61 X 149.03 | 22615 | 8.708 | 529.6 | 23.4 | 22.7 |
| 2 | Staircase Wall Base Concrete | M25 | 28/08/2021 | 04/09/2021 | 149.39 X 149.99 X 149.59 | 22407 | 9.033 | 495.2 | 22.1 | |
| 3 | Staircase Wall Base Concrete | M25 | 28/08/2021 | 04/09/2021 | 151.91 X 150.11 X 149.07 | 22804 | 8.449 | 515.1 | 22.6 | |

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Certificate No : TC-5948

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TR/01

Date: 25/09/2021

| | | |
|---|---|---|
| Lab ID | : | CP-2021-12-24-23 |
| Customer | : | Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore. |
| Address | : | Project Sub Division, BBMP, Bangalore. |
| Project Name | : | Maintenance and Repair Works at Primary Health Center at Jakkur in Ward No.05 |
| Agency | : | Sri. Gnanoodha Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kemperi Satellite Town, Bangalore-60 |
| Customer's Reference | : | EE(Project)/York Zone/WO306/2021-22 |
| Source of Sample | : | Sample supplied by Agency |
| Mode / Condition | : | Satisfactory |
| Date of Receipt | : | 30-08-21 |
| Specimen ID | : | Staircase Wall Base Concrete |
| Mould Type /Size | : | 150X150X150 mm |
| Sample grade/ Age | : | M25 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS. 516 - 1959 Methods of Tests for Strength of Concrete CL5 |
| Date of Test | : | 25/09/2021 |

| Sl. No | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Staircase Wall Base Concrete | M25 | 28/08/2021 | 25/09/2021 | 149.19 X 150.49 X 150.82 | 22452 | 8.750 | 619.2 | 27.6 | 27.4 |
| 2 | Staircase Wall Base Concrete | M25 | 28/08/2021 | 25/09/2021 | 150.00 X 150.90 X 151.96 | 22635 | 8.806 | 599.6 | 26.5 | |
| 3 | Staircase Wall Base Concrete | M25 | 28/08/2021 | 25/09/2021 | 151.64 X 151.51 X 151.12 | 22974 | 8.800 | 644.0 | 28.0 | |

- The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-6548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TR/01

| | | |
|---|---|---|
| Lab ID | : | CP-2021-12-24-23 |
| Customer | : | Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore. |
| Address | : | Project Sub Division, BBMP, Bangalore. |
| Project Name | : | Maintenance and Repair Works at Primary Health Center at Jakkur in Ward No.05 |
| Agency | : | Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60 |
| Customer's Reference | : | EE/Project/Ynk Zone/WO306/2021-22 |
| Nature of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 02-09-21 |
| Location | : | Staircase Wall Stem Concrete |
| Sample ID | : | 150X150X150 mm |
| Sample Type/ Size | : | M25 / 7 Days Compressive Strength |
| Sample grade/Age | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| Reference to BIS codes | : | 07/09/2021 |
| Date of Test | | |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength (N/mm²) | Average Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Staircase Wall Stem Concrete | M25 | 31/08/2021 | 07/09/2021 | 151.33 X 150.56 X 150.64 | 22784 | 8.926 | 543.9 | 23.9 | 22.9 |
| 2 | Staircase Wall Stem Concrete | M25 | 31/08/2021 | 07/09/2021 | 151.97 X 150.73 X 150.26 | 22907 | 8.409 | 515.0 | 22.5 | |
| 3 | Staircase Wall Stem Concrete | M25 | 31/08/2021 | 07/09/2021 | 149.08 X 151.53 X 151.25 | 22589 | 9.068 | 502.1 | 22.2 | |

*The results obtained are satisfactory as per standard requirements.

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Technical Manager



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Format No: CP/TF/01

Lab ID : CP-2021-12-24-23
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Maintenance and Repair Works at Primary Health Center at Jakkur in Ward No.05
Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60
Customer's Reference : EE(Project)/Ynk Zone/WO/06/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-09-21
Customer ID : Staircase Wall Stem Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 28/09/2021

Date: 28/09/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Staircase Wall Stem Concrete | M25 | 31/08/2021 | 28/09/2021 | 149.63 X 149.99 X 149.29 | 22443 | 8.451 | 625.2 | 27.9 | 27.7 |
| 2 | Staircase Wall Stem Concrete | M25 | 31/08/2021 | 28/09/2021 | 151.93 X 149.56 X 149.48 | 22722 | 8.625 | 601.6 | 26.5 | |
| 3 | Staircase Wall Stem Concrete | M25 | 31/08/2021 | 28/09/2021 | 150.94 X 150.02 X 149.90 | 22643 | 8.961 | 650.4 | 28.7 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-12-24-23
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Maintenance and Repair Works at Primary Health Center at Jakkur in Ward No.05
Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60
Customer's Reference : EE(Project)/Ynk Zone/WO/06/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-09-21
Customer ID : Staircase Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 11/09/2021

Date: 11/09/2021

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Staircase Wall Concrete | M25 | 04/09/2021 | 11/09/2021 | 150.56 X 149.77 X 151.52 | 22548 | 8.511 | 539.8 | 23.9 | 22.9 |
| 2 | Staircase Wall Concrete | M25 | 04/09/2021 | 11/09/2021 | 150.42 X 150.89 X 149.98 | 22697 | 8.662 | 499.4 | 22.0 | |
| 3 | Staircase Wall Concrete | M25 | 04/09/2021 | 11/09/2021 | 151.90 X 150.96 X 150.86 | 22931 | 8.247 | 524.2 | 22.9 | |

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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

CP-2021-12-24-23

Date: 02/10/2021

Cust ID : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Customer : Project Sub Division, BBMP, Bangalore.
Address :
Project Name : Maintenance and Repair Works at Primary Health Center at Jakkur in Ward No.05
Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60
Customer's Reference : EE(Project)/Ynk Zone/WO/06/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-09-21
Customer ID : Staircase Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 02/10/2021

| Sl No | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Staircase Wall Concrete | M25 | 04/09/2021 | 02/10/2021 | 151.45 X 151.37 X 151.13 | 22925 | 8.109 | 628.9 | 27.4 | 27.5 |
| 2 | Staircase Wall Concrete | M25 | 04/09/2021 | 02/10/2021 | 151.55 X 149.98 X 151.39 | 22729 | 8.138 | 600.7 | 26.4 | |
| 3 | Staircase Wall Concrete | M25 | 04/09/2021 | 02/10/2021 | 150.32 X 149.37 X 150.52 | 22454 | 8.369 | 645.1 | 28.7 | |

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Certificate No.: TC-5548

Format No: CP/TF/2017

# TEST REPORT FOR SAND MASONRY MORTARS

| | | |
|---|---|---|
| Lab ID | : | CP-2021-12-24-23 Date: 08-11-21 |
| Customer | : | Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore. |
| Address | : | Project Sub Division, BBMP, Bangalore. |
| Project Name | : | Maintenance and Repair Works at Primary Health Center at Jakkur in Ward No.05 |
| Agency | : | Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60 |
| Customer's Reference | : | EE(Project)/Ynk Zone/WO/06/2021-22 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 04-11-21 |
| Sample Type | : | Fine Aggregate, M.Sand for Mortar |
| Reference to BIS codes | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| Date of test | : | 04-11-21 |
| Total weight taken | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS: 2116-1980 (RA-2007) |
|---|---|---|---|---|---|---|
| 1 | 4.75 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 2.36 mm | 85 | 85 | 8.5 | 91.5 | 90-100 |
| 3 | 1.18 mm | 200 | 285 | 28.5 | 71.5 | 70-100 |
| 4 | 600 micron | 146 | 431 | 43.1 | 56.9 | 40-100 |
| 5 | 300 micron | 116.5 | 547.5 | 54.8 | 45.3 | 5-70 |
| 6 | 150 micron | 412.5 | 960 | 96.0 | 4.0 | 0-15 |
| 7 | Pan | 40 | 1000 | 100.0 | 0.0 | 0 |



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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

# TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2021-12-24-23

Date: 08-11-21

## PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 3.18 | – |
| 2 | Specific Gravity | 2.51 | – |
| 3 | Material finer than 75 micron(%) | 12.2 | Crushed Fine aggregate Max 15% |
| 4 | Compacted Bulk Density (Kg/litre) | 1.90 | – |
| 5 | Loose Bulk Density (Kg/litre) | 1.73 | – |

* The results obtained are satisfactory as per standard requirements.

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Technical Manager



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Certificate No.: TC-5548

# TEST REPORT FOR PLASTER SAND

Format No: CP/TF/2017

| | | |
|---|---|---|
| Lab ID | : | CP-2021-12-24-23 |
| Customer | : | Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore. Date: 08-11-21 |
| Address | : | Project Sub Division, BBMP, Bangalore. |
| Project Name | : | Maintenance and Repair Works at Primary Health Center at Jakkur in Ward No.05 |
| Agency | : | Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60 |
| Customer's Reference | : | EE(Project)/Ynk Zone/WO/06/2021-22 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 04-11-21 |
| Sample Type | : | Plaster Sand |
| Reference to BIS codes | : | IS: 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS1542:1992 (Sand for Plaster - Specification)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| Date of test | : | 04-11-21 |
| Total weight taken | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 1542:1992 |
|---|---|---|---|---|---|---|
| 1 | 10 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 4.75 mm | 35 | 35 | 3.5 | 96.5 | 95-100 |
| 3 | 2.36 mm | 15 | 50 | 5 | 95 | 95-100 |
| 4 | 1.18 mm | 50 | 100 | 10 | 90 | 90-100 |
| 5 | 600 micron | 100 | 200 | 20 | 80 | 80-100 |
| 6 | 300 micron | 215 | 415 | 41.5 | 58.5 | 20-65 |
| 7 | 150 micron | 500 | 915 | 91.5 | 8.5 | 0-15 |
| 8 | Pan | 85 | 1000 | 100 | 0 | --- |



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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

## TEST REPORT OF FINE AGGREGATE

Certificate No.: TC-5548

Lab ID : CP-2021-12-24-23

Date: 08-11-21

PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS 383:2016 |
|---|---|---|---|
| 1 | Water Absorption(%) | 1.8 | – |
| 2 | Specific Gravity | 2.56 | – |
| 3 | Material finer than 75 micron(%) | 8.5 | Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10% |

* The results obtained are satisfactory as per standard requirements.

**Note:**
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

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R RUDRAPRASAD
Authorized Signatory
Technical Manager


****End of Report****

Asst. Executive Engineer
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

# TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Format No: CP/TF/01

Date: 10-08-21

| | | |
|---|---|---|
| Lab ID | : | CP-2021-12-24-23 |
| Customer | : | Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore |
| Address | : | Project Sub Division, BBMP, Bangalore |
| Project Name | : | Maintenance and Repair Works at Primary Health Center at Jakkur in Ward No.05 |
| Agency | : | Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60 |
| Customer's Reference | : | EE(Project)/Ynk Zone/WO/06/2021-22 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 06-08-21 |
| Sample Type/Size | : | Solid concrete blocks size (400X100X200)mm |
| Reference to BIS codes | : | IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10) |
| Date of test | : | 06-08-21 |

**BLOCK DENSITY:**

| Sl. No. | Measurement of overall Dimensions of Individual Blocks | | | Overall Volume of the Block in Cubic Centimetres | Weight of Oven Dried Block in Kilograms to the nearest 10 Gram | Block Density in Kg/cum*$10^6$ | Avg.Block Density in (Kg/cum) | As per IS 2185(Part 1) :2005 (RA 2010) |
|---|---|---|---|---|---|---|---|---|
| | Length | Breadth | Height | | | | | |
| | mm | mm | mm | ($Cm^3$) | Kg | $Kg/m^3$ | $Kg/m^3$ | |
| 1 | 403 | 100 | 198 | 7979 | 15.027 | 1883.2 | 1971.8 | Not less than 1800$Kg/m^3$ |
| 2 | 400 | 103 | 200 | 8240 | 17.434 | 2115.8 | | |
| 3 | 405 | 101 | 203 | 8304 | 15.913 | 1916.3 | | |

**WATER ABSORPTION:**

| Sl. No. | Wet weight after water absorption | Dry weight (Oven dry) | Water Absorption | Avg.Water Absorption | As per IS 2185(Part 1):2005 (RA 2010) |
|---|---|---|---|---|---|
| | kg | kg | % | % | |
| 1 | 33.91 | 32.25 | 4.89 | 4.25 | Shall not be more than 10% by mass |
| 2 | 33.57 | 32.14 | 4.28 | | |
| 3 | 33.44 | 32.24 | 3.59 | | |



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Certificate No.: TC-5548

Lab ID : CP-2021-12-24-23

DIMENSION ANALYSIS

Date: 10-08-21

| Sl.no | Length mm | Breadth mm | Height mm | Requirement as per IS 2185(Part 1):2005 |
|---|---|---|---|---|
| 1 | 400 | 103 | 203 | |
| 2 | 400 | 103 | 203 | |
| 3 | 399 | 102 | 202 | |
| 4 | 403 | 102 | 201 | |
| 5 | 403 | 103 | 200 | |
| 6 | 403 | 101 | 199 | |
| 7 | 402 | 101 | 199 | |
| 8 | 401 | 102 | 200 | |
| 9 | 401 | 102 | 202 | |
| 10 | 401 | 101 | 200 | |
| 11 | 402 | 102 | 202 | Length : ± 5mm |
| 12 | 402 | 100 | 199 | Breadth : ± 3mm |
| 13 | 400 | 103 | 201 | Height : ± 3mm |
| 14 | 402 | 103 | 201 | |
| 15 | 402 | 102 | 203 | |
| 16 | 399 | 103 | 200 | |
| 17 | 403 | 103 | 201 | |
| 18 | 400 | 100 | 203 | |
| 19 | 403 | 100 | 200 | |
| 20 | 401 | 100 | 202 | |
| Average of 20 | **401** | **102** | **201** | |



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Lab ID : CP-2021-12-24-23 Certificate No.: TC-5548

COMPRESSIVE STRENGTH: Date: 10-08-21

| Sl. No. | Size of solid block | | Area | Failure Load | Compressive strength | Average Compressive strength |
|---|---|---|---|---|---|---|
| | Length mm | Breadth mm | ($mm^2$) | (KN) | $N/mm^2$ | ($N/mm^2$) |
| 1 | 400 | 103 | 41196 | 182.9 | 4.4 | |
| 2 | 400 | 103 | 41157 | 186.2 | 4.5 | |
| 3 | 399 | 102 | 40685 | 185.5 | 4.6 | |
| 4 | 403 | 102 | 41184 | 184.4 | 4.5 | |
| 5 | 403 | 103 | 41443 | 185.4 | 4.5 | 4.5 |
| 6 | 403 | 101 | 40891 | 186.5 | 4.6 | |
| 7 | 402 | 101 | 40621 | 190.9 | 4.7 | |
| 8 | 401 | 102 | 40743 | 186.6 | 4.6 | |

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

| Compressive strength | | |
|---|---|---|
| Grade | Minimum average | Minimum Individual units. |
| C (5.0) | 5.00 $N/mm^2$ | 4.00 $N/mm^2$ |
| C (4.0) | 4.00 $N/mm^2$ | 3.20 $N/mm^2$ |

* The Results Obtained are Satisfactory as per Standard Requirements

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R RUDRAPRASAD
Authorized Signatory
Technical Manager


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